

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number  
**WO 2005/062584 A1**

(51) International Patent Classification<sup>7</sup>: **H04M 1/23**,  
H01H 25/00

(74) Agents: **SLINGSBY, Philip, Roy** et al.; Page White & Farrer, 54 Doughty Street, London WC1N 2LS (GB).

(21) International Application Number:  
PCT/IB2004/004356

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:  
16 December 2004 (16.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0329493.1 19 December 2003 (19.12.2003) GB

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).

(72) Inventor; and

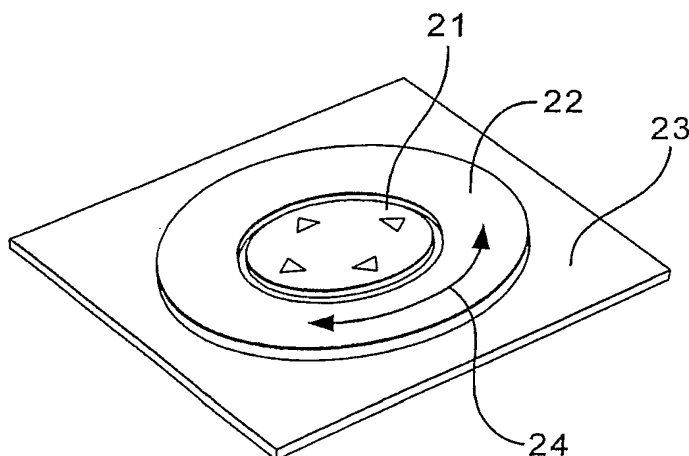
(75) Inventor/Applicant (*for US only*): **WINGETT, Gary** [GB/GB]; 5 Monks Place, West Totton, Southampton, Hampshire SO40 8TX (GB).

Published:

— with international search report

[Continued on next page]

(54) Title: ROTATOR WHEEL



(57) Abstract: An input apparatus for a multimedia device, said input apparatus comprising: a rotator wheel having an upper planar surface that is substantially annular in shape and exposed in order that the upper planar surface may be accessed by a user of the multimedia device; means for detecting rotational movement of the rotator wheel about an axis perpendicular to the upper planar surface of the rotator wheel; and select means activated when a pressure is applied to the upper surface of the rotator wheel in a direction substantially parallel to an axis perpendicular to the upper planar surface of the rotator wheel.

WO 2005/062584 A1



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*